

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	883	((600/16) or (600/17)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/10/22 13:31
S2	11	S1 and "electroactive polymer"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/22 13:33
S3	58	("20020050769" "20030032855" "345 5298" "4014318" "4192293" "4302854  "4304225" "4448190" "4506658" "4 522698" "4690134" "4925443" "49574 77" "5098369" "5131905" "5169381" " "5250167" "5352574" "5383840" "538 9222" "5558617" "6084321" "6109852  "6249076" "6376971" "6464655" "6 514237").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/28 14:03
S4	48	("2238967"   "3233607"   "3279464"   "3371662"   "3455298"   "3513836"   "3587567"   "3667069"   "3668708"   "3791769"   "3865102"   "3915158"   "4048990"   "4092742"   "4143425"   "4167046"   "4176411"   "4192293"   "4291707"   "4304225"   "4448190"   "4506658"   "4536893"   "4541417"   "4583523"   "4621617"   "4690134"   "4731076"   "4925443"   "4957477"   "5081986"   "5098369"   "5131905"   "5150706"   "5169381"   "5250167"   "5256132"   "5383840"   "5389222"   "5397349"   "5558617").PN. OR ("6464655").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/28 14:06
S5	0	S4 and "electroactive polymer"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/28 14:07
S6	0	S4 and "electroactive"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/28 14:07
S7	11	S1 and "electroactive"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/28 14:08

## EAST Search History

S8	4	(("20040010180") or ("6464655")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/28 14:08
S9	4	(("5250167") or ("5389222")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/28 14:44
S10	2	("6,249,076").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/28 14:44
S11	456	S1 and (jacket or mesh or sleeve or sock or "cardiac assist device" or actuator)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/28 15:10
S12	386	S11 and first and second	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/28 15:10
S13	376	S12 and heart	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/28 15:09
S14	20	S13 and (second near (jacket or mesh or sleeve or sock or "cardiac assist device" or actuator))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/28 15:11
S15	90	S13 and (second with (jacket or mesh or sleeve or sock or "cardiac assist device" or actuator))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/28 15:12
S16	8	S1 and "dielectric"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/28 15:45
S17	884	((600/16) or (600/17)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/29 11:03

## EAST Search History

S18	260	S17 and (transducer or actuator)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/29 12:15
S19	2	S18 and (level near (transducer or actuator))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/29 11:05
S20	0	S18 and (energy near (transducer or actuator))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/29 11:05
S21	5	S18 and (voltage near (transducer or actuator))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/29 12:01
S22	4	S18 and (different near (transducer or actuator))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/29 12:03
S23	13	S18 and (second near (transducer or actuator))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/29 12:08
S24	0	S18 and (coordinat\$3 near (transducer or actuator))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/29 12:05
S25	49	S18 and coordinat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/29 12:09
S26	150	S18 and (cover or covering or jacket or sleeve or sock or mesh)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/29 12:13
S27	78	S26 and ((coordinat\$3) or (synchroniz\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/29 12:13

## EAST Search History

S28	66	S27 and (voltage or level)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/29 12:13
S29	151	S18 and (girdle or cover or covering or jacket or sleeve or sock or mesh)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/29 12:13
S30	78	S29 and ((coordinat\$3) or (synchroniz\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/29 12:13
S31	66	S30 and (voltage or level)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/29 12:14
S32	2	S19 and (transducer or actuator)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/29 12:15
S33	151	S29 and (transducer or actuator)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/29 12:16
S34	146	S33 and heart	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/29 12:48
S35	6	(("6,169,922") or ("6,464,655") or ("5,169,381")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/29 12:51
S36	3	("6,809,462").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/29 12:51
S37	2	("6,126,590").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/29 12:52

## EAST Search History

S38	13	(("6,809,462") or ("6,126,590") or ("4,621,617") or ("6,169,922") or ("6,464,655") or ("5,169,381")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/29 12:53
S39	1	"810134".apn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/29 18:45
S40	0	("2004/0249236").URPN.	USPAT	OR	ON	2006/05/30 11:42
S41	946	((600/16) or (600/17)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/30 13:23
S42	31	hegde-anant-v.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/30 11:57
S43	5	("2004086946").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/30 11:58
S44	4	("2004075953").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/30 11:58
S45	60	"electroactive polymer" with expand	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/30 12:02
S46	72	"electroactive" with expand	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/30 12:02
S47	26	S46 and (heart or cardiac)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/30 12:02

## EAST Search History

S48	946	((600/16) or (600/17)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/30 13:23
S49	346	S48 and expand	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/30 13:36
S50	761	S48 and (expand or inflate or fluid of bladder)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/30 13:53
S51	729	S50 and (cardiac or heart)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/30 13:33
S52	753	S48 and (expand or inflate or fluid or bladder)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/30 13:24
S53	438	S48 and (expand or inflate or bladder)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/30 13:24
S54	431	S53 and (cardiac or heart)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/30 13:24
S55	135	S50 and ((cardiac or heart) with (covering or jacket or constraint or constrict))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/30 13:25
S56	14	S48 and "electroactive polymer"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/30 13:28

## EAST Search History

S57	38	("20040078067" "3449767" "4485387" "4684143" "5006111" "5205722" "5368451" "5385528" "5533958" "5674259" "5861558" "5908378" "6095968" "6254525" "6328689" "6485407" "6622045" "6730016" "6846296").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/30 13:29
S58	54	("20020188170"   "20030065248"   "2826193"   "3464322"   "3587567"   "3613672"   "3659593"   "3674019"   "4157713"   "4340091"   "4536893"   "4628937"   "4690134"   "4803744"   "4827932"   "4902291"   "4936857"   "4957477"   "5078134"   "5098369"   "5111818"   "5119804"   "5131905"   "5169381"   "5243723"   "5300110"   "5336254"   "5383840"   "5466255"   "5534024"   "5558617"   "5564142"   "5611085"   "5702343"   "5704891"   "5707336"   "5713954"   "5741316"   "5800528"   "5853005"   "5902229"   "5971910"   "5991665"   "5991925"   "6065154"   "6076013"   "6179793"   "6179800"   "6212430"   "6221103"   "6260552").PN. OR ("6846296"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/30 13:30
S59	340	S49 and (cardiac or heart)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/30 13:36
S60	0	S48 and (expand with (constrict or contract))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/30 13:36
S61	52	S48 and (expand with volume)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/30 13:36
S62	51	S61 and (cardiac or heart)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/30 13:37
S63	4	"cardiac assist device" with expand	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/30 13:53

## EAST Search History

S64	779	"cardiac assist device"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/30 13:53
S65	119	S64 and inflate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/30 13:54
S66	55	("4902291" "4957477" "5119804" "5131905" "5169381" "5250167" "5256132" "5272746" "5273518" "5389222" "5397349" "5429584" "5533958" "5713954" "5738627" "5749839" "5800334" "5902229" "5908378" "5971910" "5971911" "6109852" "6238334" "6254525" "6258021" "6464655" "6475639" "6602182").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/30 13:54
S67	13	("4919647").PN. OR ("5908378").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/30 13:56
S68	106	"artificial sphincter".ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/07 19:33
S69	10	S68 and "electroactive"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/07 19:35
S70	609	"electroactive".ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/07 19:35
S71	5	S70 and (cardiac.ti.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/07 19:36
S72	11	"vascular assist".ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/07 19:37

# Search report

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	988	((600/16) or (600/17)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/10/22 13:32
L3	667	(600/37).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/10/22 13:32
L4	348	(600/30).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/10/22 13:33
L5	227	(600/18).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/10/22 13:33
L6	1464	(2 or 3 or 4 or 5) and (heart or cardiac or myocardium)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/22 13:52
L7	413	6 and polymer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/22 13:50
L8	25	6 and "electroactive polymer"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/22 13:34
L9	26	6 and ("electroactive" or "electro-active" or "electro active")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/22 13:34
L10	160	6 and (expand\$4 with compress\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/22 13:35

## EAST Search History

L11	16	6 and (expand\$4 adj compress\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/22 13:37
L12	33	6 and (expand\$4 adj2 compress\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/22 13:37
L13	17	12 not 11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/22 13:37
L14	0	("2004/0010180").URPN.	USPAT	OR	ON	2006/10/22 13:38
L17	0	("2004/0249236").URPN.	USPAT	OR	ON	2006/10/22 13:43
L20	522	hegde.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/22 13:50
L23	32	hegde-anant-\$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/22 13:51
L24	19	buch-wally-s.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/22 13:52
L25	10	karabey-halil-\$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/22 13:52

# Interference

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	988	((600/16) or (600/17)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/10/22 13:32
L3	667	(600/37).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/10/22 13:32
L4	348	(600/30).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/10/22 13:33
L5	227	(600/18).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/10/22 13:33
L26	1	(2 or 3 or 4 or 5) and (heart.clm. or cardiac.clm. or myocardial.clm. or myocardium.clm.) and film.clm. and (electroactive.clm. or "electro active". clm. or "electro-active".clm.) and polymer.clm. and frame.clm.	US-PGPUB	OR	ON	2006/10/22 13:54
L27	1	(2 or 3 or 4 or 5) and (heart.clm. or cardiac.clm. or myocardial.clm. or myocardium.clm.) and film.clm. and (electroactive.clm. or "electro active". clm. or "electro-active".clm.) and polymer.clm.	US-PGPUB	OR	ON	2006/10/22 13:55
L28	3	(2 or 3 or 4 or 5) and (heart.clm. or cardiac.clm. or myocardial.clm. or myocardium.clm.) and film.clm. and polymer.clm.	US-PGPUB	OR	ON	2006/10/22 13:54
L31	2	(2 or 3 or 4 or 5) and (heart.clm. or cardiac.clm. or myocardial.clm. or myocardium.clm.) and (electroactive. clm. or "electro active".clm. or "electro-active".clm.) and polymer. clm. and expand.clm. and compress. clm.	US-PGPUB	OR	ON	2006/10/22 13:55

## EAST Search History

L32	2	(2 or 3 or 4 or 5) and (heart.clm. or cardiac.clm. or myocardial.clm. or myocardium.clm.) and support.clm. and (electroactive.clm. or "electro active".clm. or "electro-active".clm.) and polymer.clm.	US-PGPUB	OR	ON	2006/10/22 13:56
L34	1	(2 or 3 or 4 or 5) and (heart.clm. or cardiac.clm. or myocardial.clm. or myocardium.clm.) and actuator.clm. and (electroactive.clm. or "electro active".clm. or "electro-active".clm.) and polymer.clm. and (sock.clm. or sack.clm. or harness.clm.)	US-PGPUB	OR	ON	2006/10/22 13:56
L35	2	(2 or 3 or 4 or 5) and (heart.clm. or cardiac.clm. or myocardial.clm. or myocardium.clm.) and actuator.clm. and (electroactive.clm. or "electro active".clm. or "electro-active".clm.) and polymer.clm. and (sock.clm. or sack.clm. or harness.clm. or frame.clm.)	US-PGPUB	OR	ON	2006/10/22 13:56